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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/509,576	09/29/2004	Kazunori Kataoka	2004-1545A 2488	
513 WENDEROTH	7590 06/04/2007 I, LIND & PONACK, L.:	EXAMINER		
2033 K STREET N. W. SUITE 800 WASHINGTON, DC 20006-1021			HAQ, SHAFIQUL	
			ART UNIT	PAPER NUMBER
	•		1641	
			<u> </u>	
			MAIL DATE	DELIVERY MODE
			06/04/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/509,576	KATAOKA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Shafiqul Haq	1641				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 12 M	1) Responsive to communication(s) filed on 12 March 2007.					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the	epted or b) \square objected to by the E					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da					

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DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/12/07 has been entered.

- 2. Applicant's amendments filed January 29, 2007 is acknowledged and entered.
- 3. Claims 1-4 and 6-18 are pending.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1-4 and 6-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 6. Claim 1 is vague and indefinite because claim 1 has two definitions for X. In lines 7-8, X is defined as a functional group or functional moiety capable of binding directly to a biosensor chip surface. However, in line 24, X is defined as a residue of a member forming a biological specific binding pair.

Therefore, it is not clear what applicant is intended to encompass in this claim.

Specification (lines 30-35) describes biological specific binding pair as follows:

"Biological molecules which are the object of detection by bioassays intended by the invention may be one of the constituents of a "biological"

specific binding pair (e.g. those formed by hydrophobic binding, ionic binding or the like of biological molecules), more specifically, either one of the constituents of non-covalently bound pair such as a ligand and receptor, for example, antigen or hapten and antibody, sugar and lectin, substrate and enzyme, hormone and receptor thereof, oligonucleotide and complementary chain thereof, biotin and avidin or streptavidins, etc."

Therefore, the "the functional group or functional moiety capable of binding directly to a biosensor chip surface" is different from the "residue of forming a biological specific binding pair" and thus the claim is unclear as well as confusing for conflicting definition of "X".

- 7. With regard to claim 4, the groups selected for "L" are disclosed as terminal groups (i.e. only one bond is shown), while "L" is not a terminal group.
- 8. Claim 10 is indefinite for the same reason as described above for definition of "X". Claim 10 is vague and indefinite because claim 10 has two definitions for X. In lines 7-8, X is defined as a functional group or functional moiety capable of binding directly to a biosensor chip surface. However, in line 19, X is defined as a residue of a member forming a biological specific binding pair.

Therefore, it is not clear what applicant is intended to encompass in this claim.

Allowable Subject Matter

9. Claims 1 and 10 and their dependent claims 2-4 and 6-9 and 11-8 would be would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Response to Argument

10. Applicant's amendments and arguments filed 1/29/07 have been fully considered, and are persuasive to overcome the rejections under 35 USC 35 USC 103 but, However, Applicants' amendments and further review necessitated new ground of rejections under 35 USC 112, second paragraph.

Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shafiqul Haq whose telephone number is 571-272-6103. The examiner can normally be reached on 7:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long V. Le can be reached on 571-272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 1641

SHAFIQULAHAQ

EXAMINER ART UNIT 1641 LONG V. LE

05/29/07

SUPERVISORY PATENT EXAMINER

ART UNIT 1641